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Docket No.: 14090-00003-US1
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Dizhong Chen et al.

Application No.: 10/572,958

Confirmation No.:

Filed: March 21, 2006

Art Unit: N/A

For: BENZIMIDAZOLE DERIVATIVES:
PREPARATION AND PHARMACEUTICAL
APPLICATIONS

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

A summary/abstract translation of the non-English language references is enclosed.

Applicant has not submitted copies of each cited U.S. patent and U.S. patent application as required by 37 CFR 1.98(a)(2)(i), amended October 2004, as the U.S. Patent and Trademark

Office has waived this requirement for all U.S. patent applications. Applicant submits herewith copies of foreign and non-patents in accordance with 37 CFR 1.98(a)(2).

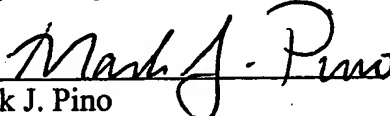
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 22-0185, under Order No. 14090-00003-US1. A duplicate copy of this paper is enclosed.

Dated: July 13, 2006

Respectfully submitted,

By 
Mark J. Pino

Registration No.: 43,858
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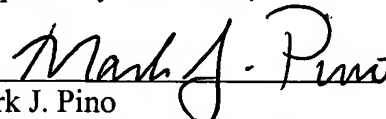
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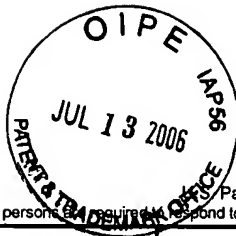
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PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/572,958		
		Filing Date	March 21, 2006		
		First Named Inventor	Dizhong Chen		
		Art Unit	N/A		
		Examiner Name	Not Yet Assigned		
Sheet	1	of	3	Attorney Docket Number	14090-00003-US1

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US 6,552,065	04-22-03	Remiszewski et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	2	WO-2000/042022	07-20-2000	Warner-Lambert Co. et al.		
	3	WO-2003/077855	09-25-2003	Array Biopharma, Inc. et al.		
	4	WO-2003/077914	09-25-2003	Array Biopharma, Inc. et al.		
	5	WO-2003/087089	10-23-2003	Teijin Limited et al.		
	6	WO-2003/000682	01-03-2003	Merck & Co., Inc. et al.		
	7	WO-2003/000254	01-03-2003	Japan Tobacco Inc. et al.		
	8	WO-2002/050062	06-27-2002	Neurogen Corporation et al.		
	9	WO-2001/047883	07-05-2001	Japan Tobacco Inc. et al.		
	10	WO-2001/005390	01-25-2001	Warner-Lambert Co. et al.		
	11	WO-2001/012604	02-22-2001	Aventis Cropscience GmbH et al.		
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	13	WO-2001/000207	01-04-2001	Merck & Co., Inc. et al.		
	14	WO-2001/000213	01-04-2001	Merck & Co., Inc. et al.		
	15	WO-2003/066579	08-14-03	AXYS Pharmaceuticals		
	16	WO-2001/38322	05-31-01	Methylgene, Inc.		

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	17	Wade, P.A. "Transcriptional control at regulatory checkpoints by histone deacetylases: molecular connections between cancer and chromatin" Hum. Mol. Genet. Vol. 10, No. 7, pgs. 693-698 (2001)		
	18	De Ruijter, A.J.M. et al, "Histone deacetylases (HDACs): characterization of the classical HDAC family" Biochem. J., 370, pgs. 737-749 (2003)		
	19	Richon, V.M. et al, "Second generation hybrid polar compounds are potent inducers of transformed cell differentiation" Proc. Natl. Acad. Sci. USA, Vol. 93: pgs. 5705-5708 (1996)		
	20	Richon, V.M. et al, "A class of hybrid polar inducers of transformed cell differentiation inhibits histone deacetylases" Proc. Natl. Acad. Sci. USA, Vol. 95: pgs. 3003-3007 (1998)		

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	21	Butler, L.M. et al, "Suberoylanilide hydroxamic acid, an inhibitor of histone deacetylase, suppresses the growth of prostate cancer cells in vitro and in vivo", Cancer Res. 60, 5165-5170 (2000)	
	22	Yoshida, M. et al, "Potent and Specific Inhibition of Mammalian Histone Deacetylase Both <i>in Vivo</i> and <i>in Vitro</i> by Trichostatin A" J. Biol. Chem., Vol. 265, No. 28, pgs. 17174-17179 (1990)	
	23	Kijima, M. et al, "Trapoxin, an Antitumor Cyclic Tetrapeptide, Is an Irreversible Inhibitor of Mammalian Histone Deacetylase" J. Biol. Chem., Vol. 268, No. 30, pgs. 22429-22435 (1993)	
	24	Bouchain, G. et al, "Development of Potential Antitumor Agents. Synthesis and Biological Evaluation of a New Set of Sulfonamide Derivatives as Histone Deacetylase Inhibitors" J. Med. Chem., 46, 820-830 (2003)	
	25	Steffan, J.S. et al, "Histone deacetylase inhibitors arrest polyglutamine-dependent neurodegeneration in <i>Drosophila</i> " Nature, Vol. 413, pgs. 739-743, 18 October, 2001	
	26	Schindler et al., "Dissociation between Interleukin -1 β mRNA and Protein Synthesis in Human Peripheral Blood Mononuclear Cells" J. Biol. Chem., Vol. 265, No. 18, pgs. 10232-10237 (1990).	
	27	Carballo et al, "Feedback Inhibition of Macrophage Tumor Necrosis Factor- α Production by Tristetraprolin" Science, 1998; Vol. 281, pgs. 1001-1005	
	28	Dinarello, C.A. and Moldawer L.L. "Proinflammatory and anti-inflammatory cytokines in rheumatoid arthritis. A primer for clinicians." 3 rd Edition, Amgen Inc., 2002.	
	29	A. Inoue and D. Fujimoto, "Enzymatic Deacetylation of Histone" Biochemical Biophysical Research Communications, 1969, Vol. 36, No. 1, pgs. 146-150	
	30	J. Taunton et al, "A Mammalian Histone Deacetylase Related to the Yeast Transcriptional Regulator Rpd3p" Science, April 19, 1996, Vol. 272: pgs. 408-411	
	31	P.A. Wade et al, "Purification of a Histone Deacetylase Complex from <i>Xenopus Laevis</i> : Preparation of Substrates and Assay Procedures" Methods In Enzymology, 1999, Vol. 304, pgs. 715-725	
	32	A. Ito et al, "p300/CBP-mediated p53 acetylation is commonly induced by p53-activating agents and inhibited by MDM2" EMBO Journal 2001, Vol. 20, No. 6, pgs. 1331-1340	
	33	B.D. Strahl and C.D. Allis, "The Language of Covalent Histone Modifications" Nature, January 6, 2000, Vol. 403, pgs. 41-45	
	34	B. Heltweg and M. Jung, "A Microplate Reader-Based Nonisotopic Histone Deacetylase Activity Assay" Anal. Biochem. 2002, Vol. 302, pgs. 175-183	

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	35	Ito et al, "A Molecular Mechanism of Action of Theophylline: Induction of Histone Deacetylase Activity to Decrease Inflammatory Gene Expression" Proc. Natl. Acad. Sci. USA 2002, Vol. 99, No. 13, pgs. 8921-8926	
	36	K.J. Bitterman et al, "Inhibition of Silencing and Accelerated Aging by Nicotinamide, a Putative Negative Regulator of Yeast Sir2 and Human SIRT1" J. Biol. Chem. 2002, Vol. 277, No. 47, pgs. 45099-45107	
	37	S. Milutinovic et al, "Proliferating Cell Nuclear Antigen Associates with Histone Deacetylase Activity, Integrating DNA Replication and Chromatin Modification" J. Biol. Chem. 2002, Vol. 277, No. 23, pgs. 20974-20978	
	38	Still et al, "Rapid Chromatographic Technique for Preparative Separations with Moderate Resolution" J. Org. Chem., Vol. 43, No. 14, pgs. 2923-2925 (1978)	
	39	Remiszewski et al, "Inhibitors of Human Histone Deacetylase: Synthesis and Enzyme and Cellular Activity of Straight Chain Hydroxamates" J. Med. Chem., 2002, Vol. 45, No. 4, pgs. 753-757	
	40	Baudy et al, "Design, Synthesis, SAR, and Biological Evaluation of Highly Potent Benzimidazole-Spaced Phosphono- α -Amino Acid Competitive NMDA Antagonists of the AP-6 Type" J. Med. Chem. 2001, 44, 1516-1529	
	41	Yu-Hua Ji et al, "Tris-benzimidazole derivatives: design, synthesis and DNA sequence recognition" Bioorganic & Medical Chemistry 9, pp 2905-2919 (2001) et al.	

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